

(12) **United States Patent**
Sirpal et al.

(10) **Patent No.:** **US 9,223,426 B2**
(45) **Date of Patent:** ***Dec. 29, 2015**

(54) **REPOSITIONING WINDOWS IN THE POP-UP WINDOW**

USPC 715/761, 802, 200, 766, 797, 794,
715/778-779
See application file for complete search history.

(75) Inventors: **Sanjiv Sirpal**, Oakville (CA); **Martin Gimpl**, Helsinki (FI); **Eduardo Diego Torres Milano**, Oakville (CA)

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,157,763 A 10/1992 Peters et al.
5,467,102 A 11/1995 Kuno et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP 1648149 4/2006
WO WO 2010/028403 3/2010

(Continued)

OTHER PUBLICATIONS

Apple, iPhone User Guide for iPhone OS 3.1 software, 2009, Apple inc, pp. 1-217.*

(Continued)

(73) Assignee: **Z124**, George Town (KY)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 305 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/247,369**

(22) Filed: **Sep. 28, 2011**

(65) **Prior Publication Data**

US 2012/0084710 A1 Apr. 5, 2012

Related U.S. Application Data

(60) Provisional application No. 61/539,884, filed on Sep. 27, 2011, provisional application No. 61/458,150, filed on Nov. 17, 2010, provisional application No. 61/389,000, filed on Oct. 1, 2010, provisional application No. 61/389,117, filed on Oct. 1, 2010, provisional application No. 61/389,087, filed on Oct. 1, 2010.

(51) **Int. Cl.**
G06F 3/00 (2006.01)
G06F 3/048 (2013.01)

(Continued)

(52) **U.S. Cl.**
CPC **G06F 3/0412** (2013.01); **G06F 1/1616** (2013.01); **G06F 1/1641** (2013.01);
(Continued)

(58) **Field of Classification Search**

CPC G06F 3/04883

Primary Examiner — Manglesh M Patel

(74) *Attorney, Agent, or Firm* — Sheridan Ross P.C.

(57) **ABSTRACT**

A dual-screen user device and methods for revealing a combination of desktops on single and multiple screens are disclosed. Selected desktops and/or running applications are displayed on dual screen displays. Desktops and applications can be shifted between screens by user gestures, and/or moved off of the screens and therefore hidden. Hidden desktops and screens can be re-displayed by yet other gestures. The desktops and applications are arranged in a window stack that represents a logical order of the desktops and applications providing a user with an intuitive ability to manage multiple applications/desktops running simultaneously. One user gesture launches an applications management window that provides visual indications of all of the applications and desktops running at the time, applications/desktops displayed on the screens. Other gestures can rearrange the order of all of the applications and desktops in the window stack.

17 Claims, 27 Drawing Sheets

